Abstract of the Disclosure

A magnetic resonance imaging technique is provided to obtain sufficient MT effects by applying an MT pulse and shortening a scan time. An MT pulse whose frequency is off-resonance to a region to be imaged of an object is first applied to the object, a spoiler pulse is applied to the object, and an echo signal is acquire from the region to be imaged of the object. The duration of the MT pulse is set to a shorter time. Preferably, the duration is less than 10 [msec]. The area of waveform of the MT pulse is set to a specified value equivalent to the conventional. The MT pulse is preferably applicable to a two-dimensional scan on the multislice technique and a three-dimensional scan.